ZAPPE

Department of Energy
Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221

ENTERED

MAY 20 2003

Mr. Frank Marcinowski
Office of Radiation and Indoor Air
U.S. Environmental Protection Agency
401 M. Street, S.W.
Washington D.C., 20460

Dear Mr. Marcinowski:

Thank you for your letter dated March 21, 2003, in response to our planned change notice addressing the proposed receipt of wastes processed by the Advanced Mixed Waste Treatment Project (AMWTP), located at the Idaho National Engineering and Environmental Laboratory (INEEL). Our response to your concerns will be provided in two separate letters.

The purpose of this letter is to provide additional information regarding the proposed shipment of uncompacted wastes from the AMWTP facility, to clarify the nature of AMWTP wastes, and to seek your approval for the receipt and emplacement of the uncompacted portion of that waste at the Waste Isolation Pilot Plant (WIPP). The Department of Energy will respond separately to your concerns regarding potential long-term performance impacts of waste that will be supercompacted at the AMWTP facility and is planned for disposal at WIPP.

There is about 65,000 m^3 (volume prior to repackaging) of transuranic waste in storage at the Radioactive Waste Management Complex (RWMC) at the INEEL. All of this waste was included in the waste inventory used for the WIPP Compliance Certification Application (CCA). The AMWTP will act as a centralized facility for characterizing, repackaging, treating (as necessary), and preparing these RWMC wastes for shipment to WIPP. Approximately 28% of the RWMC volume is in the form of non-debris waste drums, consisting primarily of organic and inorganic sludges. The current plan is to characterize and overpack these waste drums into WIPP compliant Ten Drum Overpacks and Standard Waste Boxes prior to disposal at WIPP. The remainder of the RWMC waste is debris waste, which INEEL plans to compact in the AMWTP prior to shipping it to WIPP for disposal. Overall, the approximately 65,000 m^3 of waste currently stored at the RWMC is projected to be reduced to 33,350 m^3 when it is packaged for disposal at WIPP. This slight increase from the 28,600 m^3 emplaced volume assumed in the CCA, is due to a change in DOE's planned AMWTP treatment from incineration to compaction.

Waste streams currently designated for characterization, repackaging, or treatment at the AMWTP were included in the Compliance Certification Application (CCA) baseline inventories used to support your certification of the WIPP (Enclosure 1). In fact, a portion of the INEEL waste streams proposed for processing at the AMWTP in the

future have already been received and emplaced in the WIPP repository (Enclosure 2). Enclosure 3 provides a summary of the characteristics of the INEEL wastes that have been emplaced, those that are expected to be processed through the AMWTP, and the remaining wastes that are not expected to be processed through the AMWTP. Enclosure 4 presents a comparison of the INEEL waste volumes assumed in the 1996 CCA versus the amounts that would be emplaced in WIPP according to DOE's current packaging and treatment plans at AMWTP. We believe that the uncompacted portion of these wastes, which have already been approved through the WIPP certification and site certification audits, can continue to be accepted at the WIPP site without additional requirements or restrictions.

In summary, the AMWTP uncompacted wastes consist of waste streams that were listed in Appendix TWBIR of the CCA and are being prepared for shipment in a new facility (the AMWTP facility). This facility and its operations will be subject to a site certification audit that is currently scheduled for June 2003. Just as we believe that we may continue to receive already approved wastes from the INEEL, we believe that these same waste streams can also be accepted from the AMWTP facility once the AMWTP becomes operational and has been approved through the appropriate Title 40 CFR §194.8 approval process.

In regard to your further questions about the inventory of radionuclides, cellulose, plastic, and rubber (CPR), they will continue to be tracked by the WIPP Waste Information System as they are presently. The WIPP project will not accept wastes that could cause it to exceed the approved baseline values, including those for radionuclides and CPR, that were established by the calculations used to support WIPP certification without prior Environmental Protection Agency approval.

Unless advised otherwise, we will continue to receive already approved wastes from the INEEL and believe that we may also receive the uncompacted AMWTP wastes after a successful site certification audit. If you have further questions or comments regarding this matter, please contact Daryl Mercer at (505) 234-8172.

Sincerely,

Dr. Inés R. Triay
Manager

Enclosures

CBFO:OEC:HJ:VW:03-2010:UFC:5822

MAY 20 2003

cc: w/enclosures
L. Smith, DOE-EM-23
K. Watson, CBFO
H. Johnson, CBFO
J. Pigg, CBFO
A. Holland, CBFO
B. Forinash, EPA
C. Byrum, EPA
N. Stone, EPA
J. Bearzi, NMED
M. Silva, EEG
P. Shoemaker, SNL
N. Elkins, LANL
S. Warren, WTS

CBFO:OEC:HJ:VW:03-2010:UFC:5822

Enclosure 1. Classification of INEEL CH TRU Waste Streams

INEEL CH TRU Waste Streams for the CCA			
MWIR_ID	WIPP_ID	Final Waste Form	Waste Classification[1]
IN-W139	IN-W139.627	Heterogeneous	Candidate for compaction
IN-W146	IN-W146.699	Solidified Inorganics – Moved to Non-WIPP Appendix	Non-AMWTP waste
IN-W157	IN-W157.144	Solidified Organics	
IN-W157	IN-W157.906	Solidified Organics	
IN-W157	IN-W157.907	Inorganic non-metal	
IN-W159	IN-W159.1072	Solidified Inorganics	
IN-W159	IN-W159.119	Uncategorized metal	
IN-W159	IN-W159.120	Inorganic Non-metal	
IN-W161	IN-W161.231	Inorganic Non-Metal	Candidate for compaction
IN-W161	IN-W161.806	Inorganic Non-Metal	Candidate for compaction
IN-W163	IN-W163.1007	Solidified Inorganics	
IN-W163	IN-W163.234	Inorganic non-metal	
IN-W164	IN-W164.1060	Solidified Organics	
IN-W164	IN-W164.153	Solidified Organics	
IN-W166	IN-W166.151	Solidified Inorganics	Candidate for compaction
IN-W166	IN-W166.928	Solidified Inorganics	Candidate for compaction
IN-W167	IN-W167.149	Solidified Organics	
IN-W167	IN-W167.926	Solidified Organics	
IN-W169	IN-W169.191	Heterogeneous	Candidate for compaction
IN-W169	IN-W169.192	Inorganic Non-Metal	Candidate for compaction
IN-W169	IN-W169.985	Heterogeneous	Candidate for compaction
IN-W169	IN-W169.193	Heterogeneous	Candidate for compaction
IN-W170	IN-W170.189	Heterogeneous	Candidate for compaction
IN-W170	IN-W170.938	Heterogeneous	Candidate for compaction
IN-W171	IN-W171.184	Heterogeneous	Candidate for compaction
IN-W171	IN-W171.801	Heterogeneous	Candidate for compaction
IN-W172	IN-W172.182	Heterogeneous	Candidate for compaction
IN-W172	IN-W172.911	Heterogeneous	Candidate for compaction
IN-W174	IN-W174.1082	Solidified Inorganics	
IN-W174	IN-W174.154	Solidified Inorganics	
IN-W177	IN-W177.1083	Solidified Inorganics	
IN-W177	IN-W177.156	Solidified Inorganics	
IN-W179	IN-W179.1084	Solidified Inorganics	
IN-W179	IN-W179.158	Solidified Inorganics	
IN-W181	IN-W181.162	Solidified Inorganics	
IN-W186	IN-W186.187	Combustible	Candidate for compaction
IN-W187	IN-W187.1094	Solidified Inorganics	Candidate for compaction
IN-W187	IN-W187.121	Inorganic Non-Metal	Candidate for compaction
IN-W188	IN-W188.1093	Solidified Inorganics	
IN-W188	IN-W188.160	Solidified Inorganics	

[1] Waste streams are designated as (1) candidate for compaction in the AMWTP, (2) processed in the AMWTP without compaction, or (3) non-AMWTP waste stream. The second category has been indicated by a blank entry in the last column of this table.

INEEL CH TRU Waste Streams for the CCA			
MWIR_ID	WIPP_ID	Final Waste Form	Waste Classification[1]
IN-W189	IN-W189.1048	Heterogeneous	Candidate for compaction
IN-W189	IN-W189.131	Heterogeneous	Candidate for compaction
IN-W197	IN-W197.196	Inorganic Non-Metal	Candidate for compaction
IN-W197	IN-W197.802	Heterogeneous	Candidate for compaction
IN-W197	IN-W197.197	Heterogeneous	Candidate for compaction
IN-W197	IN-W197.198	Inorganic Non-metal	Candidate for compaction
IN-W197	IN-W197.803	Heterogeneous	Candidate for compaction
IN-W198	IN-W198.202	Combustible	Candidate for compaction
IN-W198	IN-W198.203	Inorganic Non-Metal	Candidate for compaction
IN-W198	IN-W198.204	Combustible	Candidate for compaction
IN-W198	IN-W198.804	Combustible	Candidate for compaction
IN-W199	IN-W199.1039	Combustible	Candidate for compaction
IN-W199	IN-W199.209	Inorganic Non-Metal	Candidate for compaction
IN-W202	IN-W202.1092	Combustible	Candidate for compaction
IN-W202	IN-W202.224	Combustible	Candidate for compaction
IN-W203	IN-W203.1081	Heterogeneous	Candidate for compaction
IN-W203	IN-W203.210	Heterogeneous	Candidate for compaction
IN-W203	IN-W203.211	Inorganic Non-Metal	Candidate for compaction
IN-W203	IN-W203.212	Uncategorized Metal	Candidate for compaction
IN-W204	IN-W204.215	Heterogeneous	Candidate for compaction
IN-W204	IN-W204.216	Heterogeneous	Candidate for compaction
IN-W204	IN-W204.217	Uncategorized Metal	Candidate for compaction
IN-W205	IN-W205.1086	Combustible	Candidate for compaction
IN-W205	IN-W205.1087	Inorganic Non-Metal	Candidate for compaction
IN-W205	IN-W205.220	Combustible	Candidate for compaction
IN-W206	IN-W206.935	Filter	Candidate for compaction
IN-W206	IN-W206.936	Inorganic Non-Metal	Candidate for compaction
IN-W207	IN-W207.238	Inorganic Non-Metal	Candidate for compaction
IN-W207	IN-W207.980	Filter	Candidate for compaction
IN-W207	IN-W207.981	Filter	Candidate for compaction
IN-W208	IN-W208.242	Inorganic Non-Metal	Candidate for compaction
IN-W208	IN-W208.243	Inorganic Non-metal	Candidate for compaction
IN-W208	IN-W208.988	Filter	Candidate for compaction
IN-W209	IN-W209.244	Inorganic Non-Metal	Candidate for compaction
IN-W209	IN-W209.994	Filter	Candidate for compaction
IN-W210	IN-W210.1001	Filter	Candidate for compaction
IN-W210	IN-W210.247	Inorganic Non-Metal	Candidate for compaction
IN-W211	IN-W211.1009	Filter	Candidate for compaction
IN-W211	IN-W211.249	Inorganic Non-Metal	Candidate for compaction
IN-W212	IN-W212.1058	Filter	Candidate for compaction
IN-W212	IN-W212.251	Inorganic Non-Metal	Candidate for compaction
IN-W213	IN-W213.1069	Filter	Candidate for compaction
IN-W213	IN-W213.252	Inorganic Non-Metal	Candidate for compaction
IN-W213	IN-W213.253	Uncategorized Metal	Candidate for compaction
IN-W214	IN-W214.1075	Filter	Candidate for compaction
IN-W214	IN-W214.755	Filter	Candidate for compaction

INEEL CH TRU Waste Streams for the CCA			Waste Classification[1]
MWIR_ID	WIPP_ID	Final Waste Form	
IN-W214	IN-W214.756	Uncategorized Metal	Candidate for compaction
IN-W216	IN-W216.875	Solidified Inorganics	
IN-W216	IN-W216.876	Inorganic Non-metal	
IN-W216	IN-W216.98	Solidified Inorganics	
IN-W216	IN-W216.99	Inorganic Non-metal	
IN-W218	IN-W218.109	Inorganic Non-Metal	
IN-W218	IN-W218.909	Solidified Inorganics	
IN-W219	IN-W219.110	Inorganic Non-metal	Non-AMWTP
IN-W219	IN-W219.914	Inorganic Non-metal	Non-AMWTP
IN-W220	IN-W220.114	Solidified Inorganics	
IN-W220	IN-W220.925	Solidified Inorganics	
IN-W221	IN-W221.113	Solidified Inorganics	
IN-W221	IN-W221.927	Solidified Inorganics	
IN-W222	IN-W222.116	Solidified Inorganics	
IN-W222	IN-W222.117	Inorganic Non-Metal	
IN-W222	IN-W222.965	Solidified Inorganics	
IN-W225	IN-W225.127	Heterogeneous	Candidate for compaction
IN-W225	IN-W225.800	Heterogeneous	Candidate for compaction
IN-W228	IN-W228.101	Solidified Inorganics	
IN-W228	IN-W228.102	Inorganic Non-metal	
IN-W228	IN-W228.103	Uncategorized Non-metal	
IN-W228	IN-W228.883	Solidified Inorganics	
IN-W228	IN-W228.884	Inorganic Non-metal	
IN-W228	IN-W228.885	Uncategorized Metal	
IN-W230	IN-W230.229	Inorganic Non-metal	Candidate for compaction
IN-W230	IN-W230.940	Inorganic Non-Metal	Candidate for compaction
IN-W240	IN-W240.272	Inorganic Non-metal	
IN-W240	IN-W240.931	Inorganic Non-Metal	
IN-W243	IN-W243.274	Inorganic Non-metal	
IN-W243	IN-W243.275	Inorganic Non-metal	
IN-W243	IN-W243.276	Inorganic Non-metal	
IN-W243	IN-W243-277	Inorganic Non-metal	
IN-W243	IN-W243.808	Inorganic Non-Metal	
IN-W245	IN-W245.1034	Inorganic Non-metal	
IN-W245	IN-W245.301	Inorganic Non-Metal	
IN-W245	IN-W245.302	Inorganic Non-metal	
IN-W245	IN-W245-1035	Inorganic Non-metal	
IN-W247	IN-W247.1038	Inorganic Non-metal	
IN-W247	IN-W247.523	Solidified Inorganics	
IN-W247	IN-W247-524	Inorganic Non-metal	
IN-W247	IN-W247.810	Inorganic Non-Metal	
IN-W249	IN-W249.1071	Inorganic Non-metal	
IN-W249	IN-W249.527	Inorganic Non-Metal	
IN-W249	IN-W249.528	Uncategorized Metal	
IN-W250	IN-W250.259	Combustible	Candidate for compaction
IN-W250	IN-W250.941	Combustible	Candidate for compaction

INEEL CH TRU Waste Streams for the CCA			Waste Classification[1]
MWIR_ID	WIPP_ID	Final Waste Form	
IN-W252	IN-W252.1000	Inorganic Non-Metal	Candidate for compaction
IN-W252	IN-W252-282	Combustible	Candidate for compaction
IN-W252	IN-W252.283	Combustible	Candidate for compaction
IN-W252	IN-W252.811	Combustible	Candidate for compaction
IN-W254	IN-W254.1044	Inorganic Non-Metal	Candidate for compaction
IN-W254	IN-W254-1045	Combustible	Candidate for compaction
IN-W254	IN-W254.289	Combustible	Candidate for compaction
IN-W254	IN-W254.290	Combustibles	Candidate for compaction
IN-W256	IN-W256.1062	Combustibles	Candidate for compaction
IN-W256	IN-W256.295	Combustible	Candidate for compaction
IN-W257	IN-W257.558	Inorganic Non-metal	Non-AMWTP waste - RH Moved into waste stream INTEC-SFS-01
IN-W257	IN-W257.947	Solidified Inorganics	Non-AMWTP waste - RH Moved into waste stream INTEC-SFS-01
IN-W259	IN-W259.552	Heterogeneous	Candidate for compaction
IN-W259	IN-W259.920	Inorganic Non-Metal	Candidate for compaction
IN-W260	IN-W260.565	Inorganic Non-metal	Candidate for compaction
IN-W260	IN-W260.566	Lead/Cadmium Metal Waste	Candidate for compaction
IN-W260	IN-W260.567	Inorganic Non-metal	Candidate for compaction
IN-W260	IN-W260.568	Lead/Cadmium Metal Waste	Candidate for compaction
IN-W260	IN-W260.916	Lead/Cadmium Metal Waste	Candidate for compaction
IN-W263	IN-W263.520	Solidified Inorganics	
IN-W265	IN-W265.516	Heterogeneous	Candidate for compaction
IN-W265	IN-W265.517	Inorganic Non-Metal	Candidate for compaction
IN-W267	IN-W267.1005	Inorganic Non-Metal	
IN-W267	IN-W267.514	Inorganic Non-Metal	
IN-W269	IN-W269.510	Combustible	Candidate for compaction
IN-W269	IN-W269.535	Combustible	Candidate for compaction
IN-W271	IN-W271.532	Graphite	Candidate for compaction
IN-W271	IN-W271.533	Uncategorized Metal	Candidate for compaction
IN-W272	IN-W272.504	Graphite	Candidate for compaction
IN-W272	IN-W272.974	Graphite	Candidate for compaction
IN-W275	IN-W275.502	Graphite	Candidate for compaction
IN-W275	IN-W275.967	Graphite	Candidate for compaction
IN-W276	IN-W276.500	Graphite	Candidate for compaction
IN-W276	IN-W276.966	Graphite	Candidate for compaction
IN-W278	IN-W278.1090	Heterogeneous	Candidate for compaction
IN-W278	IN-W278.495	Inorganic Non-Metal	Candidate for compaction
IN-W280	IN-W280.1066	Uncategorized Metal	Candidate for compaction
IN-W280	IN-W280.448	Uncategorized Metal	Candidate for compaction
IN-W280	IN-W280.449	Uncategorized Metal	Candidate for compaction
IN-W281	IN-W281.487	Heterogeneous	Candidate for compaction
IN-W281	IN-W281.488	Inorganic Non-Metal	Candidate for compaction
IN-W283	IN-W283.481	Heterogeneous	Candidate for compaction
IN-W283	IN-W283.534	Heterogeneous	Candidate for compaction

INEEL CH TRU Waste Streams for the CCA			
MWIR_ID	WIPP_ID	Final Waste Form	Waste Classification[1]
IN-W283	IN-W283.963	Inorganic Non-Metal	Candidate for compaction
IN-W283	IN-W283.964	Heterogeneous	Candidate for compaction
IN-W285	IN-W285.471	Heterogeneous	Candidate for compaction
IN-W285	IN-W285.815	Heterogeneous	Candidate for compaction
IN-W287	IN-W287.460	Uncategorized Metal	Candidate for compaction
IN-W289	IN-W289.466	Heterogeneous	Candidate for compaction
IN-W291	IN-W291.454	Heterogeneous	Candidate for compaction
IN-W291	IN-W291.455	Inorganic Non-Metal	Candidate for compaction
IN-W291	IN-W291.456	Heterogeneous	Candidate for compaction
IN-W294	IN-W294.1057	Inorganic Non-Metal	Candidate for compaction
IN-W294	IN-W294.342	Uncategorized Metal	Candidate for compaction
IN-W294	IN-W294.814	Uncategorized Metal	Candidate for compaction
IN-W294	IN-W294.343	Uncategorized Metal	Candidate for compaction
IN-W296	IN-W296.327	Uncategorized Metal	Candidate for compaction
IN-W296	IN-W296.329	Inorganic Non-Metal	Candidate for compaction
IN-W296	IN-W296.330	Uncategorized Metal	Candidate for compaction
IN-W296	IN-W296.331	Inorganic Non-metal	Candidate for compaction
IN-W296	IN-W296.813	Uncategorized Metal	Candidate for compaction
IN-W298	IN-W298.317	Uncategorized Metal	Candidate for compaction
IN-W298	IN-W298.318	Heterogeneous	Candidate for compaction
IN-W298	IN-W298.812	Heterogeneous	Candidate for compaction
IN-W298	IN-W298.979	Inorganic Non-Metal	Candidate for compaction
IN-W300	IN-W300.308	Uncategorized Metal	Candidate for compaction
IN-W300	IN-W300.930	Uncategorized Metal	Candidate for compaction
IN-W302	IN-W302.299	Heterogeneous	Candidate for compaction
IN-W302	IN-W302.913	Heterogeneous	Candidate for compaction
IN-W304	IN-W304.860	Uncategorized Metal	Candidate for compaction
IN-W304	IN-W304.861	Uncategorized Metal	Candidate for compaction
IN-W305	IN-W305.1068	Combustible	Candidate for compaction
IN-W305	IN-W305.828	Combustible	Candidate for compaction
IN-W306	IN-W306.632	Inorganic Non-Metal	Candidate for compaction
IN-W306	IN-W306.633	Heterogeneous	Candidate for compaction
IN-W306	IN-W306.634	Inorganic Non-metal	Candidate for compaction
IN-W306	IN-W306.635	Heterogeneous	Candidate for compaction
IN-W306	IN-W306.817	Heterogeneous	Deleted and redistributed among 3 other waste streams
IN-W308	IN-W308.618	Inorganic Non-Metal	Deleted and distributed amont 3 other waste streams
IN-W308	IN-W308.816	Heterogeneous	
IN-W309	IN-W309.609	Inorganic Non-Metal	
IN-W309	IN-W309.610	Solidified Organics	
IN-W311	IN-W311.1013	Salt Waste	Candidate for compaction
IN-W311	IN-W311.604	Salt Waste	Candidate for compaction
IN-W312	IN-W312.602	Salt Waste	Candidate for compaction
IN-W312	IN-W312.942	Salt Waste	Candidate for compaction

INEEL CH TRU Waste Streams for the CCA			Waste Classification[1]
MWIR_ID	WIPP_ID	Final Waste Form	
IN-W314	IN-W314.1017	Salt Waste	Candidate for compaction
IN-W314	IN-W314.606	Salt Waste	Candidate for compaction
IN-W315	IN-W315.601	Solidified Inorganics	
IN-W317	IN-W317.1028	Inorganic Non-Metal	Candidate for compaction
IN-W317	INW317.1029	Solidified Organics	Candidate for compaction
IN-W317	IN-W317.757	Solidified Organics	Candidate for compaction
IN-W317	IN-W317.758	Solidified Organics	Candidate for compaction
IN-W319	IN-W319.583	Inorganic Non-metal	
IN-W319	IN-W319.584	Solidified Organics	
IN-W321	IN-W321.1023	Solidified Organics	
IN-W321	IN-W321.578	Inorganic Non-metal	
IN-W322	IN-W322.851	Inorganic Non-metal	Non-AMWTP - Fuel Samples
IN-W322	IN-W322.952	Inorganic Non-metal	Non-AMWTP
IN-W323	IN-W323.562	Heterogeneous	Non-AMWTP
IN-W323	IN-W323.951	Inorganic Non-Metal	Non-AMWTP
IN-W325	IN-W325.1076	Heterogeneous	Non-AMWTP - Moved to Non-WIPP Appendix
IN-W325	IN-W325.679	Heterogeneous	Non-AMWTP - Moved to Non-WIPP Appendix
IN-W327	IN-W327.1085	Combustible	Candidate for compaction
IN-W327	IN-W327.735	Combustible	Candidate for compaction
IN-W329	IN-W329.681	Heterogeneous	Candidate for compaction
IN-W329	IN-W329.682	Inorganic Non-Metal	Candidate for compaction
IN-W330	IN-W330.677	Combustible	Candidate for compaction
IN-W330	IN-W330.678	Combustible	Candidate for compaction
IN-W332	IN-W332.661	Solidified Inorganics	
IN-W332	IN-W332.962	Solidified Inorganics	
IN-W334	IN-W334.675	Heterogeneous	Candidate for compaction
IN-W334	IN-W334.961	Heterogeneous	Candidate for compaction
IN-W336	IN-W336.660	Combustible	Candidate for compaction
IN-W336	IN-W336.820	Combustible	Candidate for compaction
IN-W337	IN-W337.673	Inorganic Non-Metal	Non-AMWTP - Sources (1 Drum)
IN-W337	IN-W337.957	Inorganic Non-metal	Non-AMWTP - Sources (1 Drum)
IN-W338	IN-W338.657	Heterogeneous	Candidate for compaction
IN-W338	IN-W338.956	Heterogeneous	Candidate for compaction
IN-W339	IN-W339.655	Heterogeneous	Candidate for compaction
IN-W339	IN-W339.955	Heterogeneous	Candidate for compaction
IN-W341	IN-W341.671	Heterogeneous	Non-AMWTP - Sources (1 Drum)
IN-W341	IN-W341.954	Heterogeneous	Non-AMWTP - Sources (1 Drum)
IN-W342	IN-W342.652	Uncategorized Metal	Non-AMWTP - ANL-W waste (1 Drum)
IN-W342	IN-W342.953	Uncategorized Metal	Non-AMWTP - ANL-W waste (1 Drum)

INEEL CH TRU Waste Streams for the CCA			
MWIR_ID	WIPP_ID	Final Waste Form	Waste Classification[1]
IN-W345	IN-W345.669	Heterogeneous	Candidate for compaction
IN-W345	IN-W345.819	Heterogeneous	Candidate for compaction
IN-W347	IN-W347.646	Solidified Inorganics	Candidate for compaction
IN-W347	IN-W347.818	Solidified Inorganics	Candidate for compaction
IN-W348	IN-W348.1012	Solidified Inorganics	Candidate for compaction
IN-W348	IN-W348.846	Inorganic Non-Metal	Candidate for compaction
IN-W350	IN-W350.650	Heterogeneous	Non-AMWTP - Moved to Non-WIPP Appendix
IN-W350	IN-W350.923	Heterogeneous	Non-AMWTP - Moved to Non-WIPP Appendix
IN-W351	IN-W351.648	Heterogeneous	Candidate for compaction
IN-W351	IN-W351.922	Heterogeneous	Candidate for compaction
IN-W353	IN-W353.859	Solidified Inorganics	
IN-W353	IN-W353.917	Solidified Inorganics	
IN-W354	IN-W354.1016	Salt Waste	Candidate for compaction
IN-W354	IN-W354.858	Salt Waste	Candidate for compaction
IN-W355	IN-W355.1015	Salt Waste	Candidate for compaction
IN-W355	IN-W355.857	Salt Waste	Candidate for compaction
IN-W356	IN-W356.1014	Salt Waste	Candidate for compaction
IN-W356	IN-W356.856	Salt Waste	Candidate for compaction
IN-W357	IN-W357.1022	Inorganic Non-Metal	
IN-W357	IN-W357.850	Inorganic Non-Metal	
IN-W358	IN-W358.854	Uncategorized Metal	Non-AMWTP – RH waste
IN-W358	IN-W358.855	Uncategorized Metal	Non-AMWTP - RH waste
IN-W358	IN-W358.948	Inorganic Non-Metal	Non-AMWTP – RH waste
IN-W358	IN-W358.949	Uncategorized Metal	Non-AMWTP - RH waste
IN-W359	IN-W359.853	Uncategorized Metal	Non-AMWTP - Moved to Non-WIPP Appendix
IN-W360	IN-W360.852	Uncategorized Metal	Non-AMWTP - Moved to Non-WIPP Appendix
IN-W360	IN-W360.912	Uncategorized Metal	Non-AMWTP - Moved to Non-WIPP Appendix
IN-W361	IN-W361.1021	Inorganic Non-Metal	Candidate for compaction
IN-W361	IN-W361.849	Inorganic Non-Metal	Candidate for compaction
IN-W362	IN-W362.1020	Inorganic Non-Metal	Candidate for compaction
IN-W362	IN-W362.848	Inorganic Non-Metal	Candidate for compaction
IN-W363	IN-W363.1019	Inorganic Non-Metal	Candidate for compaction
IN-W363	IN-W363.847	Inorganic Non-Metal	Candidate for compaction
IN-W364	IN-W364.1011	Inorganic Non-Metal	Candidate for compaction
IN-W364	IN-W364.844	Inorganic Non-Metal	Candidate for compaction
IN-W364	IN-W364.845	Inorganic Non-metal	
IN-W365	IN-W365.1010	Inorganic Non-Metal	
IN-W365	IN-W365.842	Inorganic Non-Metal	
IN-W365	IN-W365-843	Inorganic Non-metal	

INEEL CH TRU Waste Streams for the CCA			
MWIR_ID	WIPP_ID	Final Waste Form	Waste Classification[1]
IN-W366	IN-W366.1004	Inorganic Non-Metal	
IN-W366	IN-W366.841	Inorganic Non-Metal	
IN-W367	IN-W367.840	Inorganic Non-Metal	Candidate for compaction
IN-W367	IN-W367.973	Graphite	Candidate for compaction
IN-W368	IN-W368.839	Inorganic Non-Metal	Candidate for compaction
IN-W368	IN-W368.971	Graphite	Candidate for compaction
IN-W369	IN-W369.837	Graphite	Candidate for compaction
IN-W369	IN-W369.970	Graphite	Candidate for compaction
IN-W370	IN-W370.836	Graphite	Candidate for compaction
IN-W370	IN-W370.929	Graphite	Candidate for compaction
IN-W371	IN-W371.1018	Uncategorized Metal	Candidate for compaction
IN-W371	IN-W371.831	Uncategorized Metal	Candidate for compaction
IN-W372	IN-W372.832	Uncategorized Metal	Non-AMWTP
IN-W373	IN-W373.1003	Inorganic Non-Metal	Candidate for compaction
IN-W373	IN-W373.830	Inorganic Non-Metal	Candidate for compaction
IN-W374	IN-W374.1091	Inorganic Non-Metal	Candidate for compaction
IN-W374	IN-W374.829	Inorganic Non-Metal	Candidate for compaction
IN-W375	IN-W375.1096	Solidified Inorganics	Candidate for compaction
IN-W375	IN-W375.827	Inorganic Non-Metal	Candidate for compaction

Enclosure 2: Summary of Emplaced CH TRU Waste Streams and Types from INEEL*

Waste Stream ID #[1]	Volume[2] (m^3)	Total Activity[3] (Ci)	Mass of CPR[4] (kg)
INW161.001	18.27	4.79E+02	1.25E+03
INW169.001	19.32	6.58E+01	3.39E+03
INW198.001	49.35	1.23E+02	6.35E+03
INW211.001	303.9	1.29E+04	5.50E+04
INW216.001	1231	4.09E+04	5.49E+04
INW218.001	1062	1.80E+03	4.26E+04
INW222.001	33.81	3.14E+02	1.57E+03
INW243.001	74.97	6.53E+02	5.26E+03
INW247.001R1	115.5	1.09E+03	7.46E+03
INW276.001	10.29	1.06E+02	4.78E+02
INW276.002	16.17	1.58E+02	8.16E+02
INW276.003	186.9	5.86E+03	9.78E+03
INW276.004	47.25	1.25E+03	2.43E+03
INW296.001	97.86	1.49E+03	5.07E+03
TOTALS	**3267**	**6.72E+04**	**1.96E+05**

* Information from WIPP Waste Information System (WWIS) for March 26, 1999 through March 18, 2003

[1]Waste streams are identified by a waste stream number (i.e., INW161) and an extension. The waste stream number is identical with information in the TWBIR. The extension number represents revision of waste stream profile forms at INEEL.

[2]Emplaced volume of waste containers

[3]Activity on date of assay.

[4]Includes waste components 6(cellulosics), 7(rubbers), 8(plastics), and 14(Plastic/liners container materials

Enclosure 3. Volume, Activity and CPR Mass in the CH TRU Waste Streams from INEEL With AMWTP[1]

Parameter	Emplaced Waste	Estimates For AMWTP Compacted Waste	Estimates For AMWTP Non-Compacted Waste	Non-AMWTP Waste[2]	Total
Volume of Final Waste Form[2]	3,267 m^3	11,635 m^3	18,277 m^3	120 m^3	33,299 m^3
Total Radionuclide Activity[3]	6.72×10^4 Ci	1.37×10^5 Ci	3.02×10^5 Ci	119 Ci	5.06×10^5 Ci
Total Mass of CPR[4]	1.96×10^5 kg	1.17×10^7 kg	1.06×10^6 kg	2.80×10^3 kg	1.29×10^7 kg

[1]Based on information provided by INEEL in response to WIPP CRA data call for the CRA inventory. This inventory will differ from the INEEL inventory for the CRA because projected waste will be scaled up to fill the total repository and because the CRA inventory will be decayed to 2033.
[2]Non-AMWTP waste consists of GEM waste, a new waste stream identified for the CRA.
[3]Activity of waste streams is not decayed.
[4]The CPR in the waste streams that are candidates for compaction is (517+136.5+349.4)(11635) = 1.167E+07 kg. The CPR in the other AMWTP waste (processed without compaction) is given by (58 kg/m^3)(18,277 m^3) = 1.060E+06 kg.

Enclosure 4. Comparison of INEEL CH TRU Inventory for the CCA and for the INEEL with AMWTP

Parameter	For The CCA	For INEEL With AMWTP[1]	Percent Change[2]
Volume of Final Waste Form[2]	28,607 m^3	33,299 m^3	+16%
Total Radionuclide Activity[3]	3.51×10^5 Ci	3.55×10^5 Ci	+1%
Total Mass of CPR[2]	6.03×10^6 kg	1.29×10^7 kg	+114%

[1] This inventory will differ from the INEEL inventory for the CRA because projected waste will be scaled up to fill the total repository and because the CRA inventory will be decayed to 2033.
[2]The changes in final waste form volume and in the mass of CPR are primarily due the change in waste processing, from incineration to supercompaction (in AMWTP) since the CCA was submitted
[3]CCA value is decayed to 1995. The activity for INEEL waste is decayed to 12/31/01.